

at least one media device connected to the network; and
a portable access unit capable of wirelessly communicating with the general purpose node for communicating with the media device through the network.

2. The system of claim 1, wherein the media device comprises a camera for providing video signals for display on the portable access unit.

3. The system of claim 1, wherein the media device comprises a display for receiving video signals transmitted from the portable access unit for presenting on the display.

4. The system of claim 1, wherein the media device comprises a speaker for receiving audio signals transmitted from the portable access unit for presenting on the speaker.

5. The system of claim 1, wherein the media device is a microphone for transmitting audio signals to the portable access unit for presenting on a speaker attached to the portable access unit.

6. The system of claim 1, wherein the media device comprises processor.

7. (Amended) The system of claim 6, wherein the portable access unit is for providing commands for controlling the processor, wherein the media device is configured to execute the commands separate from the portable access unit.

8. The system of claim 7, wherein the processor is for providing commands for controlling remotely controllable hardware.

9. The system of claim 1, wherein the portable access unit further comprises a sensor for transmitting data signals collected by the sensor to the media device.

10. The system of claim 9, wherein the sensor comprises a biological sensor.

11. The system of claim 9, wherein the sensor comprises an environmental sensor.

12. The system of claim 1, wherein the media device comprises a sensor for transmitting signals comprising data collected by the sensor to the local portable access unit.

13. The system of claim 12, wherein the sensor comprises a biological sensor.

14. The system of claim 12, wherein the sensor comprises an environmental sensor.

15. The system of claim 1, wherein the media device is wirelessly connected to the network.

16. The system of claim 1, wherein the media device is electrically connected to the network.

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17. The system of claim 1, comprising a plurality of portable access units capable of wirelessly communicating with the general purpose node for communicating with the one or more media devices through the network.

18. The system of claim 17, comprising a plurality of general purpose nodes, each local general purpose node for communicating with a subset of the plurality of portable access units.

19. The system of claim 18, wherein each portable access unit is for dynamically associating and de-associating with one of the plurality of general purpose nodes.

20. (Amended) The system of claim 19, wherein each portable access unit is adapted for listing on a display the plurality of portable access units that are associated with the plurality of general purpose nodes.

21. (Amended) The system of claim 19, wherein each portable access unit is adapted for listing on a display the plurality of media devices.

22. The system of claim 21, wherein each portable access unit is adapted to present on the display the biological data for a user of at least one of the other portable access units after selecting the at least one other portable access unit displayed in the list.

23. (Amended) A method for communicating through a network with at least one media device connected to the network, comprising:

providing access to the network with a general purpose node electrically connected to the network, the general purpose node having a wireless communication device; and

communicating wirelessly with the remote media device through the general purpose node and the network with a portable access unit that is in wireless communication with the general purpose node.

24. (Amended) The method of claim 23, further comprising receiving video signals from the media device for providing video signals for display on the portable access unit.

25. (Amended) The method of claim 23, further comprising transmitting video signals from the portable access unit to the media device for presenting the video signals on the media device.

26. (Amended) The method of claim 23, further comprising transmitting audio signals from the portable access unit to the media device for presenting the audio signals on the media device.

27. (Amended) The method of claim 23, further comprising receiving audio signals captured by the remote media device from the remote media device for presenting on the portable access unit.

28. (Amended) The method of claim 23, further comprising transmitting commands from the portable access unit to the media device for controlling the media device.

29. (Amended) The method of claim 23, further comprising receiving data captured by a sensor on the media device.

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30. (Amended) The method of claim 23, further comprising dynamically associating and de-associating the portable access unit with the general purpose nodes.

31. (Amended) The method of claim 30, further comprising presenting a list of a plurality of portable access units on a display that are associated with the general purpose node.

32. (Amended) The method of claim 31, further comprising listing on the display a plurality of media devices associated with the general purpose node.

33. (Amended) The method of claim 23, further comprising presenting biological data for a user of one of a plurality of portable access units after selecting the user's name from a list of users of the plurality of portable access units.

Please add new claims 34-75.

34. (New) The system of claim 1, wherein the portable access unit is configured to transmit data.

35. (New) The system of claim 1, wherein the portable access unit is configured to display data.

36. (New) The system of claim 1, wherein the general purpose node is configured to route data between the portable access unit and the at least one media device.

37. (New) The system of claim 36, wherein the general purpose node is configured to route data separate from the portable access unit.

38. (New) The system of claim 1, wherein the media device functions separate from the portable access unit.

AS sub 5 39. (New) A wireless communications interface system, comprising:
a portable data interface unit secured to a user and having a display, an encoder, a decoder, and a transceiver, said encoder configured to receive a user command and format the command for transmission by said transceiver over a wireless connection;

a network;

a routing node having a transceiver configured to receive the command transmitted by said transceiver of said data interface unit through said wireless connection, wherein said routing node establishes a connection to said network; and

a media device coupled to said network,

wherein

said routing node transmits the command to said media device over said network using said routing node transceiver,

said media device executes the command to generate a result,

said routing node directs the result from said network device, over said network, to said decoder of said data interface unit through said routing node over said wireless connection using said routing node transceiver, and

said decoder is configured to format the result for presentation to the user with said data interface unit display.

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40. (New) The interface system of claim 39, wherein said decoder decompresses the result.

41. (New) The interface system of claim 39, wherein said decoder demultiplexes the result.

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42. (New) The interface system of claim 39, wherein said encoder formats the command by compressing the command.

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43. (New) The interface system of claim 39, wherein said encoder formats the command by multiplexing the command.

44. (New) The interface system of claim 39, wherein said network comprises a Local Area Network (LAN).

45. (New) The interface system of claim 39, wherein said network comprises a Remote Local Area Network (RLAN).

46. (New) The interface system of claim 39, wherein said network comprises a Wide Area Network (WAN).

47. (New) The interface system of claim 39, further comprising a sensor associated with the user and configured for communication with said routing node.

48. (New) The interface system of claim 47, wherein said sensor comprises a biological sensor.

49. (New) The interface system of claim 47, wherein said sensor comprises an environmental sensor.

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50. (New) The interface system of claim 39, further comprising one or more additional portable data interface units, each of said additional data interface units being associated with said routing node through respective transceivers over said wireless connection.

51. (New) The interface system of claim 50, wherein said one of the data interface units displays a list of the other said data interface units associated with said routing node.

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52. (New) The interface system of claim 39, wherein said media device comprises a processor.

53. (New) The interface system of claim 39, wherein said media device comprises a separate computer running client software.

54. (New) The interface system of claim 39, wherein said network device comprises a separate computer running a multimedia Internet software program.

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55. (New) The interface system of claim 39, wherein said media device comprises a camera for providing video signals over said network, through said routing node, for display on said portable data interface unit.

56. (New) The interface system of claim 39, wherein said media device comprises an Internet phone.

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57. (New) The interface system of claim 39, wherein said media device comprises a display for receiving video signals transmitted from said portable data interface unit, through said routing node,

and over said network to said display for presentation on said display.

58. (New) The interface system of claim 39, wherein said media device comprises a speaker for receiving audio signals transmitted from said portable data interface unit, through said routing node, over said network, and to said speaker for presenting sound based on the audio signals.

AS 59. (New) The interface system of claim 39, said portable data interface unit further comprising a speaker, wherein said media device comprises a microphone for transmitting audio signals over said network, through said routing node, and to said speaker of said portable data interface unit for presenting sound based on the audio signals.

60. (New) The interface system of claim 39, further comprising one or more additional media devices, wherein a media device is selected by a user, and the command is transmitted from said portable access unit and through said routing node which routes the command over said network to said selected media device.

61. (New) A method of communicating data over a wireless network and displaying the data on a portable data interface unit, the data interface unit being secured to a user and having a display, an encoder, a decoder, and a transceiver, the data interface unit being associated with a routing node that is linked to a media device through a network connection, the method comprising:
receiving a command from the user;

formatting the command with said encoder into a format suitable for transmission by said transceiver of said data interface unit over said wireless connection;

transmitting said formatted command from said transceiver to said routing node over said wireless connection;

receiving said transmitted command from said transceiver, over said wireless connection, and into a transceiver of said routing node;

routing the command with said routing node to said network device over said network; and

executing the command with said network device to generate a result,

wherein routing and executing the command are performed separately from said data interface unit.

62. (New) The method of claim 61, wherein formatting the command with said encoder further comprises compressing the command.

63. (New) The method of claim 61, wherein formatting the instruction with said encoder further comprises multiplexing the command.

64. (New) The method of claim 61, further comprising routing the result from said network device to said routing node over said network.

65. (New) The method of claim 64, further comprising routing the result to said decoder of said data interface unit over said wireless connection through respective transceivers.

66. (New) The method of claim 65, further comprising formatting the result with said decoder for presentation to the user with said display.

67. (New) The method of claim 66, wherein formatting the result further comprises decompressing the result.

68. (New) The method of claim 66, wherein formatting the result further comprises demultiplexing the received result.

69. (New) The method of claim 66, further comprising displaying the formatted result on said display to the user.

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sub 6170. (New) The method of claim 61, wherein routing the command over said network further comprises routing the command over a Local Area Network (LAN).

71. (New) The method of claim 61, wherein routing the command over said network further comprises routing the command over a Remote Local Area Network (RLAN).

72. (New) The method of claim 61, wherein routing the command over said network further comprises routing the command over a Wide Area Network (WAN).

73. (New) The method of claim 61, further comprising transmitting sensor data to said routing node.

74. (New) The method of claim 73, wherein transmitting sensor data further comprises transmitting biological sensor data.